



Memphis Depot

Environmental Restoration Program Update

Presented by

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Project Manager

MACTEC Engineering and Consulting, Inc.

Memphis Depot Restoration Advisory Board Meeting

May 19, 2005



Presentation Overview

Environmental Restoration Program Update

- Main Installation Remedial Action
- Early Implementation of Selected Remedy
- Finding of Suitability to Transfer (FOST) #4
- Dunn Field Disposal Sites Remedial Action
- Community Involvement Program

Project Schedule/Next Steps

- Main Installation and Dunn Field



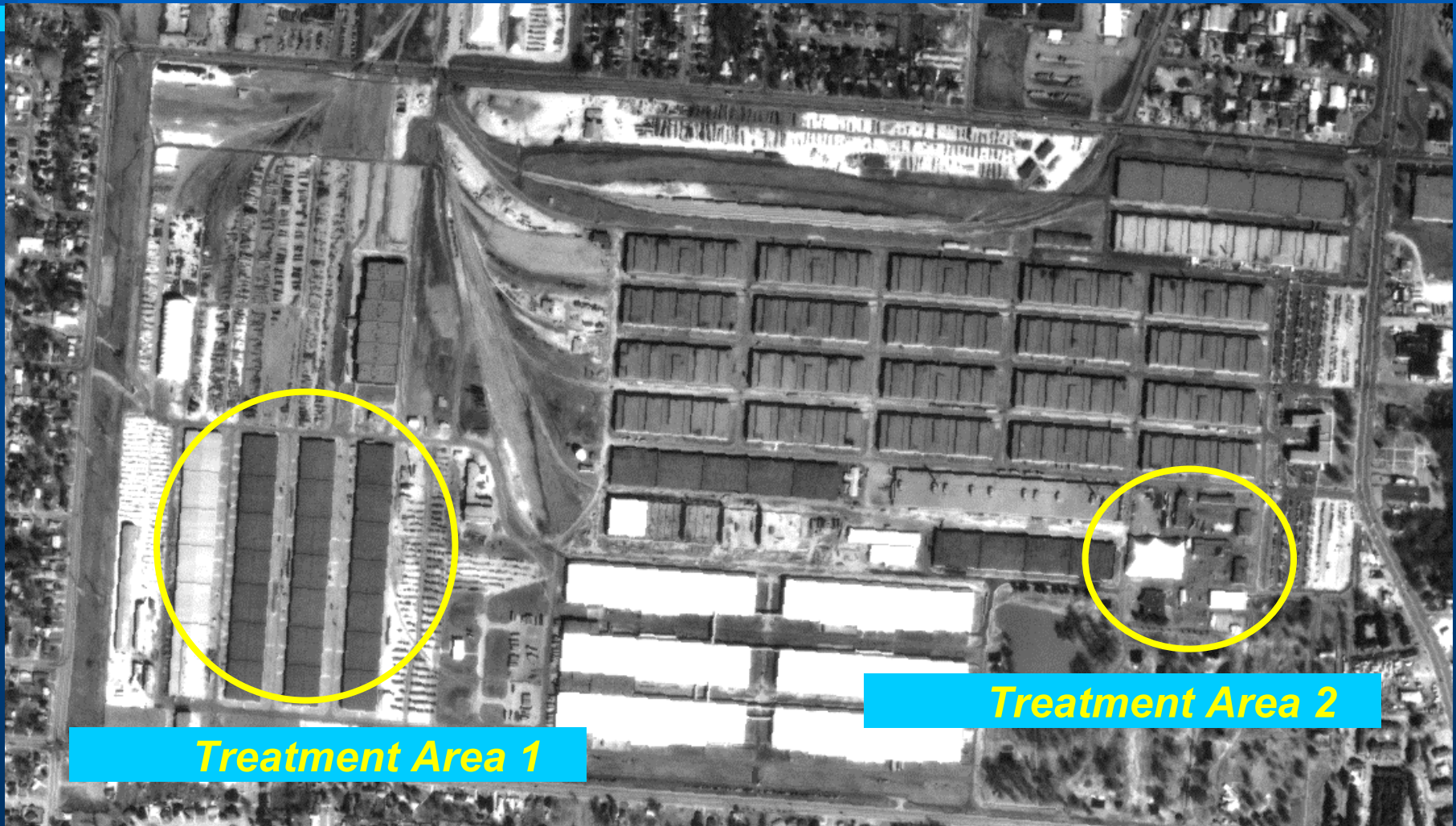
Main Installation

Main Installation Remedial Action

- Record of Decision completed September 2001
- Remedial Design completed July 2004
- Remedial Action Work Plan being developed
 - Final injection and monitoring well locations
 - Sodium lactate injection procedures
 - Groundwater monitoring plan
 - Work Plan will be available in Information Repositories
- Remedial Action to begin Winter 2005/06
 - Health and safety plan addendum will be prepared

PUBLIC BRIEFING WILL BE SCHEDULED FOR FALL 2005 UPON COMPLETION OF RA WORK PLAN

Main Installation



Treatment Area 1

Treatment Area 2

Dunn Field



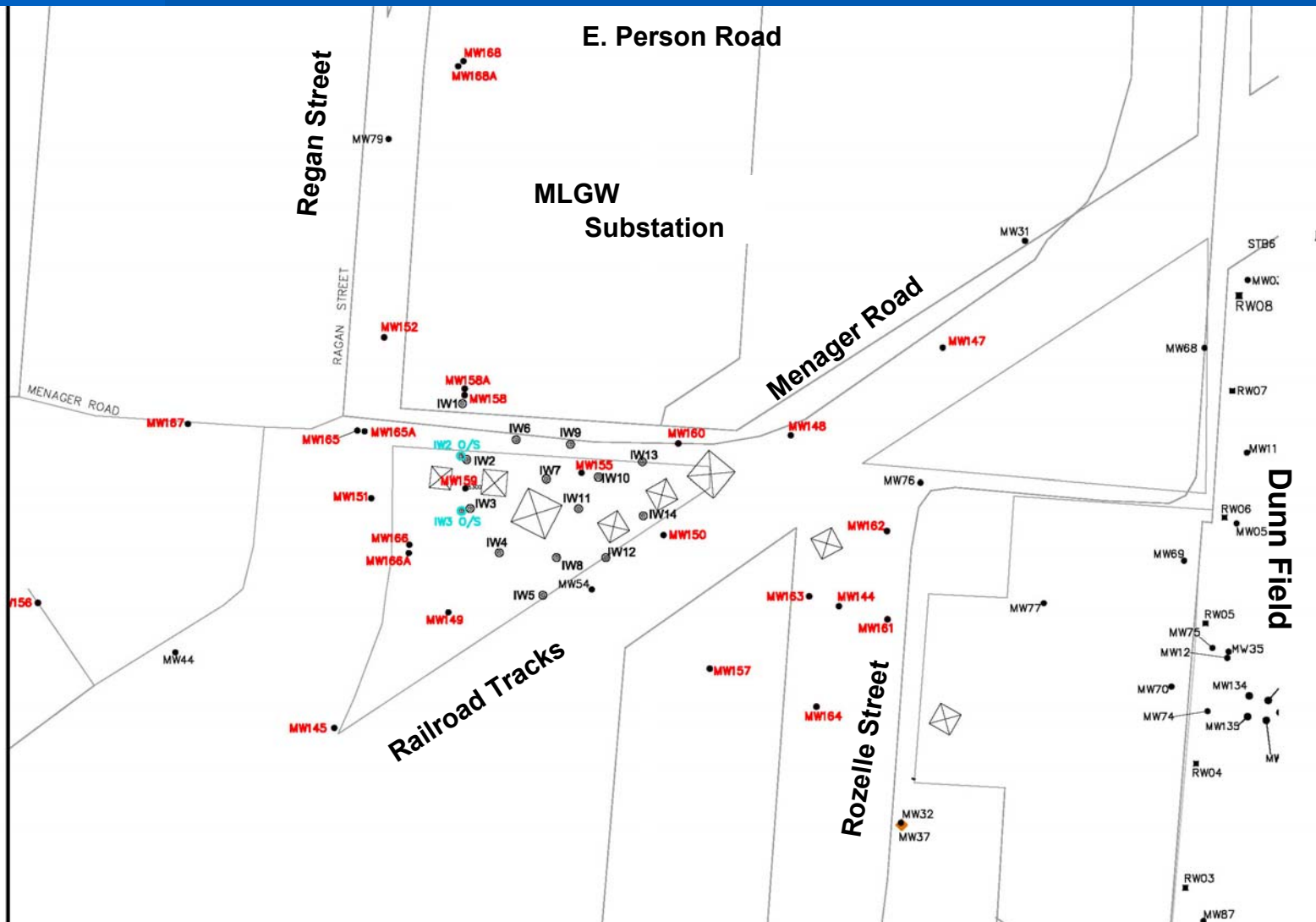
Early Implementation of Selected Remedy

- Zero-Valent Iron injected into fluvial aquifer through 14 borings
 - Presentation to RAB October 2004
 - Field work November 2004 – January 2005
 - Public meeting February 2005
- Post injection sampling in January and March 2005
- Chlorinated solvent levels reduced 50%
- Groundwater monitoring will continue
 - Data will be used in Off Depot Groundwater RD
- RA Completion Report being prepared
 - Report will be reviewed by EPA and TDEC and will be available in Information Repositories

Dunn Field



Early Implementation of Selected Remedy



Finding of Suitability to Transfer

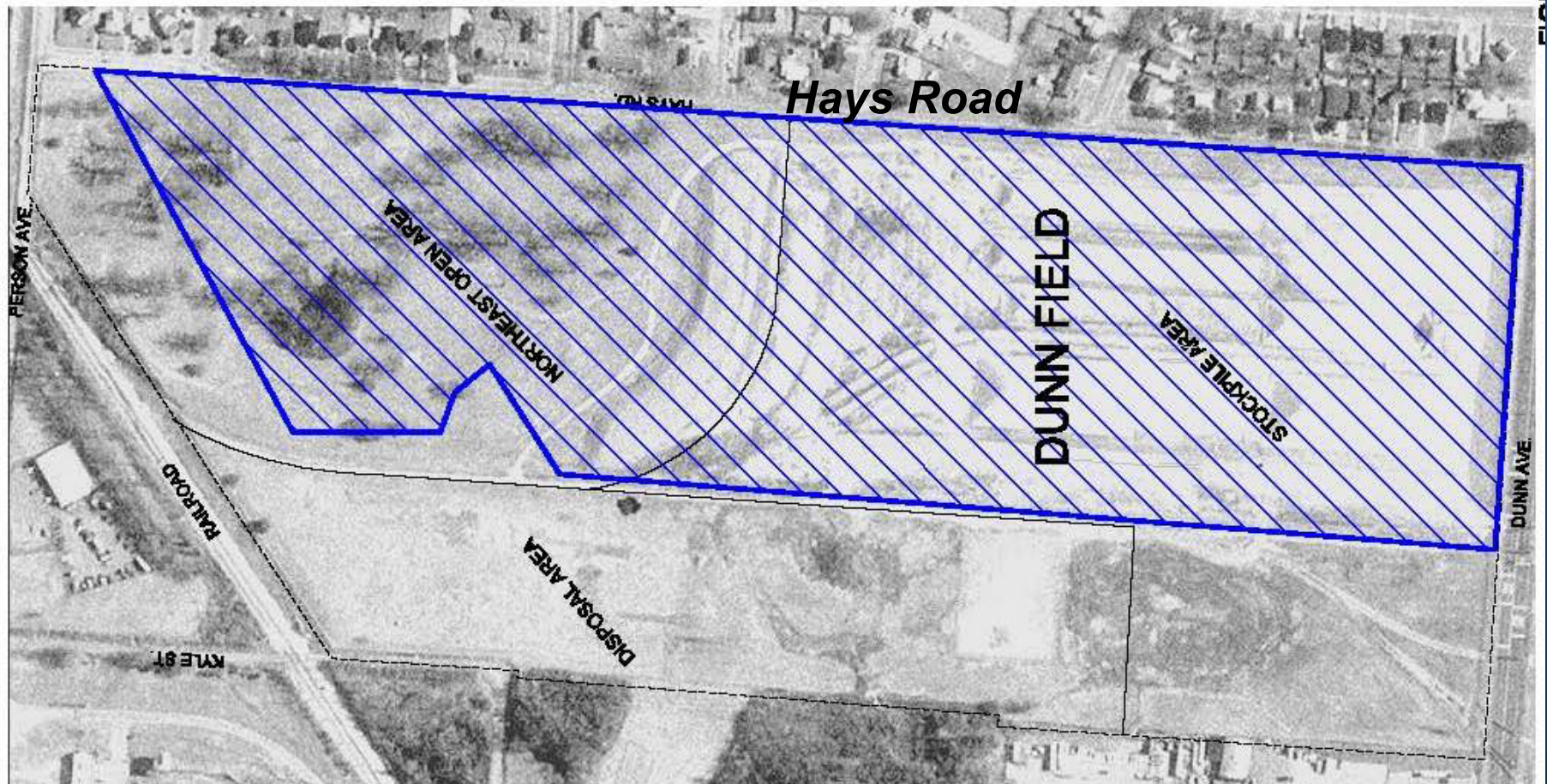


FOST #4

- 41 acres on eastern half of Dunn Field
- Public Comment Period from January 24 – February 23, 2005
- Document completed and signed March 2005
 - Reviewed and approved by EPA and TDEC
- Deeds for land transfer are being prepared

FOST #4 (Area in blue)

DUNN FIELD



Dunn Field



Disposal Sites Remedial Action

- Record of Decision completed April 2004
- Remedial Design completed April 2004
 - Pre-Design Investigation completed October 2003
- Remedial Action Work Plan completed November 2004
 - Public Briefing conducted January 2005
- Remedial Action began March 2005
 - Sites 3, 4.1, 10, 13 and 31
 - Excavation, confirmation and characterization sampling, transportation, disposal, backfill and site restoration

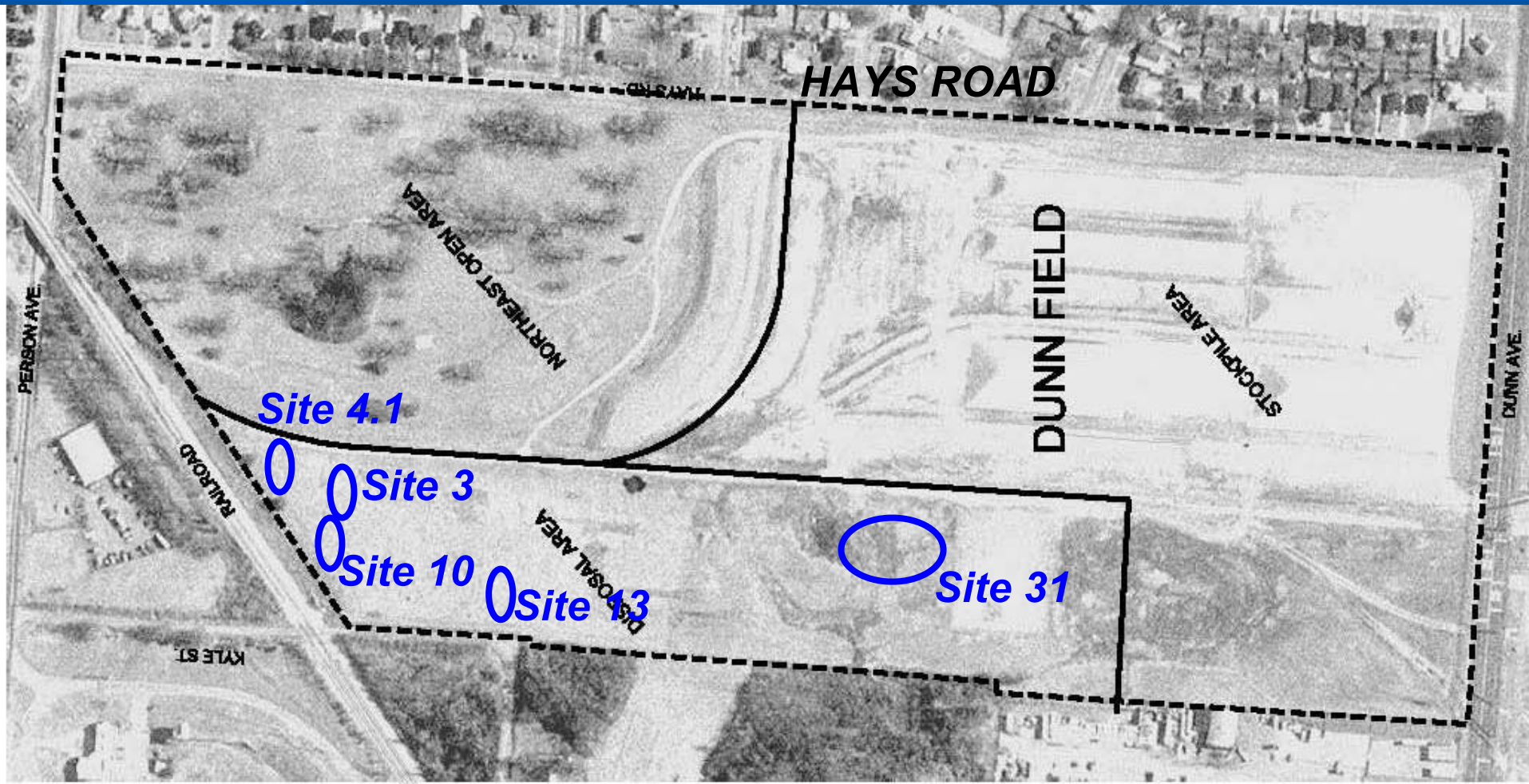
Dunn Field



Disposal Sites Remedial Action

- Completed work on Sites 4.1, 13 and 31
- Excavation still underway at Sites 10 and 3
- RA Completion Report being prepared
 - Report will be reviewed by EPA and TDEC and will be available in Information Repositories Winter 2005

Dunn Field



Community Involvement



Community Involvement Plan

- Depot's Community Relations Plan written in 1999 as a five-year document
- Update began Summer 2004
 - Community interviews, research to reflect history of environmental and community relations program
- Revised CIP distributed to RAB/IRs February 2005
- Plan Objectives:
 - Fulfill information availability requirements
 - Build community interest in the cleanup
 - Build community awareness about community involvement opportunities
 - Maintain regular information channels

Community Involvement

Information Repositories

- IRs consolidated in two locations
 - Memphis Depot Business Park
 - call 774-3683 for appointment
 - Memphis/Shelby County Public Library Cherokee Branch
 - Mon.-Thurs. 10 a.m.–6 p.m., Sat. 10 a.m.-6 p.m., closed Fri. and Sun.
 - Memphis/Shelby County Health Department location closed March 2005

See our website for more information
WWW.DDC.DLA.MIL/MEMPHIS

Depot's CERCLA Status



Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

- Remedial Investigation (RI)
- Feasibility Study (FS)
- Proposed Plan (PP)
- Record of Decision (ROD)



**Key decision-making
stages completed**

- Remedial Design



**Source Area and Off
Depot Groundwater**

- Remedial Action



**Disposal Sites and
Main Installation**



Project Schedule – Next Steps

Summer 2005

- Complete Disposal Sites Remedial Action

Fall 2005

- Conduct Main Installation Remedial Design Public Briefing

Winter 2005-06

- Begin Main Installation Remedial Action
 - Enhanced Bioremediation
- Complete Source Area Remedial Design
 - Soil Vapor Extraction (SVE) and Zero-Valent Iron (ZVI)
- Complete Disposal Sites RA Completion Report

Projected dates are based on current information and may be subject to change



Next Steps

2006

- Conduct Source Area RD Public Briefing
- Begin Source Area Remedial Action
- Complete Off Depot Groundwater Remedial Design
 - Permeable Reactive Barrier (PRB) and ZVI

2007

- Conduct Off Depot Groundwater Remedial Design Public Briefing
- Begin Off Depot Groundwater Remedial Action

Projected dates are based on current information and may be subject to change



Next Steps

2008

- Receive EPA Operating Properly and Successfully determination for the MI RA
- Conduct FOST 5 (remainder of MI) Public Comment Period

2009

- Receive EPA Operating Properly and Successfully determination for the Source Area and Off Depot Groundwater RAs
- Conduct FOST 6 (remainder of Dunn Field) Public Comment Period

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